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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

1. This communication is responsive to an amendment filed 4/8/08.
2. Claims 1-22 are pending in this application; and, claims 1, 9, 12 and 15 are independent claims. This action is made Final
3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. Claims 1-5, 7-10, 12-19, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Piwonka et al. (US #6,467,038, "Piwonka") in view of *Teach Yourself Web Publishing with HTML 4 in a Week* ("HTML").

As per claim 1, Piwonka teaches a method of providing a BIOS generated display of strings in a computer comprising providing a set of BIOS-readable strings to be displayed by the BIOS (figs. 2-4; col. 6, lines 48-65; col. 26, lines 9-28), providing a first string of the set to be displayed in a first format and, when displaying the first string of the set, the display engine of the BIOS generates the display of the first string with the portion of the first string displayed in the first format (figs. 2-4; col. 6, lines 27-65; col. 26, lines 9-28). Piwonka does not explicitly disclose providing a first escape code within a first string of the set wherein the first escape code provides an indication of at least a portion of the first string that is to be displayed in a first format so that upon encountering and interpreting the first escape code by a display engine, the first format

is determined and the first string with the portion of the first string in the first format is generated for display. HTML teaches providing a tag/first escape code within a first string of the set wherein the first escape code provides an indication of at least a portion of the first string that is to be displayed in a first format so that upon encountering and interpreting the first escape code by a display engine, the first format is determined and the first string with the portion of the first string in the first format is generated for display (pages 123-125, 207-208 and 564-566; e.g. tag/escape code or <U> provides an indication that at least a portion of a first string is to be displayed in a first format such as “**September 26, 1996**” or “Sign Here”). It would have been obvious to an artisan at the time of the invention to incorporate the method of HTML with the method of Piwonka in order to change the appearance of text or string so it is somehow different from the surrounding strings.

As per claim 2, the modified Piwonka teaches a method of providing a BIOS generated display of strings in a computer comprising providing a BIOS-readable cancel escape code within the first string and wherein the portion of the first string between the first BIOS-readable escape code and the BIOS-readable cancel escape code is displayed in the first format (Piwonka: figs. 2-4; col. 6, lines 48-65; col. 26, lines 9-28; HTML: pages 123-125 and 564; e.g. *cancel tags/cancel escape codes “/” or “/<U>”*).

As per claim 3, the modified Piwonka teaches a method of providing a BIOS generated display of strings in a computer comprising providing a BIOS-readable second escape code within the first string of the set wherein the BIOS-readable second escape code provides an indication of at least a portion of the first string that is to be

displayed in a second format and wherein the portion of the first string between the BIOS-readable first escape code and the BIOS-readable second escape code is displayed in the first format and wherein the portion of the first string after the BIOS-readable second escape code is displayed in the second format (Piwonka: figs. 2-4; col. 6, lines 48-65; col. 26, lines 9-28; HTML: pages 123-125; *disclosed are a plurality of tags/escape codes used such as ,r <U>, </>, etc. and a plurality of formats displayed such as “September 26, 1996”, “Sign Here”, “Inferno”, etc.).*

As per claim 4, the modified Piwonka teaches a method of providing a BIOS generated display of strings in a computer comprising providing a BIOS-readable third escape code within a second string of the set, wherein the BIOS-readable third escape code provides an indication of at least a portion of the second string that is to be displayed in a third format (Piwonka: figs. 2-4; col. 6, lines 48-65; col. 26, lines 9-28; HTML: pages 123-125; *disclosed are a plurality of tags/escape codes used such as ,r <U>, </>, etc. and a plurality of formats displayed such as “September 26, 1996”, “Sign Here”, “Inferno”, etc.).*

As per claim 5, the modified Piwonka teaches a method of providing a BIOS generated display of strings in a computer wherein the first format is a bold typeface (Piwonka: figs. 2-4; col. 6, lines 48-65; col. 26, lines 9-28; HTML: pages 123-125 and 564).

As per claim 7, the modified Piwonka teaches a method of providing a BIOS generated display of strings in a computer wherein the first format is an underlined typeface, the method further comprising displaying the portion of the first string in the

underlined typeface by controlling each bottom row pixel of each character of the portion (Piwonka: figs. 2-4; col. 6, lines 48-65; col. 26, lines 9-28; HTML: pages 123-125 and 566).

As per claim 8, the modified Piwonka teaches a method of providing a BIOS generated display of strings in a computer wherein the first format is a first text color and a first background color (HTML: pages 207-208).

As per claims 9 and 10, Piwonka teaches a method of providing a BIOS generated display of strings in a computer comprising during power on self-test (POST) or a BIOS SETUP, providing strings including text to be displayed by the BIOS (figs. 2-4; col. 6, lines 27-65; col. 26, lines 9-28), providing a first string of the set to be displayed in a first format and, when displaying the first string of the set, the display engine of the BIOS generates the display of the first string with the portion of the first string displayed in the first format during BIOS SETUP (figs. 2-4; col. 6, lines 48-65; col. 26, lines 9-28). Piwonka does not explicitly disclose providing escape codes wherein the escape codes provide an indication of at least a portion of the string that is to be displayed in a particular format during parsing so that upon encountering and interpreting an escape code by a display engine, various formats are determined so that first and second strings in their respective formats (including bold typeface) are generated for display. HTML teaches providing escape codes/tags within strings of the set wherein the escape codes provide an indication of at least a portion of the string that is to be displayed in a particular format so that upon encountering and interpreting the escape codes by a display engine, a first and second format is determined and a first

string with the portion of the first string in the first format is generated for display and a second string with the portion of the second string in the second format is generated for display (pages 123-125, 207-208 and 564-566; e.g. tag/escape code or <U> provides an indication that at least a portion of a first string is to be displayed in a first format such as **"September 26, 1996"** or "Sign Here"). It would have been obvious to an artisan at the time of the invention to incorporate the method of HTML with the method of Piwonka in order to change the appearance of text or string so it is somehow different from the surrounding strings.

As per claims 12-14, Piwonka teaches a method of providing a BIOS generated display of strings in a computer comprising during power on self-test (POST) or a BIOS SETUP, providing strings including text to be displayed by the BIOS (figs. 2-4; col. 6, lines 27-65; col. 26, lines 9-28), providing a first string of the set to be displayed in a first format and, when displaying the first string of the set, the display engine of the BIOS generates the display of the first string with the portion of the first string displayed in the first format during BIOS SETUP (figs. 2-4; col. 6, lines 27-65; col. 26, lines 9-28; BIOS displays strings in text as a default mode). Piwonka does not explicitly disclose providing escape codes wherein the escape codes provide an indication of at least a portion of the string that is to be displayed in a particular format during parsing so that upon encountering and interpreting an escape code by a display engine, various formats are determined so that first and second strings in their respective formats (including underlined typeface, which are generated by controlling each pixel of a low row of each character of a portion of a string) are generated for display and switching

over to a graphics mode. HTML teaches providing escape codes/tags within strings of the set wherein the escape codes provide an indication of at least a portion of the string that is to be displayed in a particular format so that upon encountering and interpreting the escape codes by a display engine, a first and second format is determined and a first string with the portion of the first string in the first format is generated for display and a second string with the portion of the second string in the second format is generated for display (pages 123-125, 207-208 and 564-566; e.g. tag/escape code or <U> provides an indication that at least a portion of a first string is to be displayed in a first format such as “**September 26, 1996**” or “Sign Here” wherein the underlined typeface is generated by controlling each pixel of a low row of each character of the string). Furthermore, since Piwonka’s BIOS displays strings in text as a default mode, in order to display strings in formatted mode using tags for formatting text as taught by HTML, it is inherent for the computer to go to graphics mode in order to display the strings and given that it cannot be done in text mode. It would have been obvious to an artisan at the time of the invention to incorporate the method of HTML with the method of Piwonka in order to change the appearance of text or string so it is somehow different from the surrounding strings.

Claim 15 is similar in scope to claim 1 and is therefore rejected under similar rationale.

Claim 16 is similar in scope to claim 2 and is therefore rejected under similar rationale.

Claim 17 is similar in scope to claim 3 and is therefore rejected under similar rationale.

Claim 18 is similar in scope to claim 4 and is therefore rejected under similar rationale.

Claim 19 is similar in scope to claim 5 and is therefore rejected under similar rationale.

Claim 21 is similar in scope to claim 7 and is therefore rejected under similar rationale.

Claim 22 is similar in scope to claim 8 and is therefore rejected under similar rationale.

5. Claims 6, 11 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Piwonka et al. (US #6,467,038, "Piwonka") in view of *Teach Yourself Web Publishing with HTML 4 in a Week* ("HTML") as applied to claims 5, 10 and 19 respectively, and further in view of Hays et al. (US #4,729,678, "Hays").

As per claim 6, although the modified Piwonka teaches a method of providing a BIOS generated display of strings in a computer comprising displaying the portion of the first string in the bold typeface (HTML: pages 123-125 and 564; e.g. *tag/escape code* `` provides an indication that at least a portion of a first string is to be displayed in a first format such as "**September 26, 1996**"), Piwonka does not explicitly disclose the portion of the first string in the bold typeface is displayed by shifting a copy of each character pixel row data by one pixel position and performing a logical OR on each character row data with the shifted copy to control pixels that produce the display of

each character of the portion. Hays teaches a portion of the first string in the bold typeface is displayed by shifting a copy of each character pixel equivalent row data by one pixel equivalent position and performing a logical OR on each character row data with the shifted copy to control pixels, or equivalence thereof, that produce the display of each character of the portion (col. 1, lines 9-16). It would have been obvious to an artisan at the time of the invention to incorporate the method of HTML with the method of the modified Piwonka in order to provide users with an implementation preference.

Claims 11 and 20 are individually similar in scope to claim 6 and are therefore rejected under similar rationale.

Response to Arguments

6. Upon further consideration, applicant's arguments filed 9/28/07 have been fully considered but they are not persuasive.

Applicant argued:

Neither Piwonka nor HTML teaches a BIOS-readable first escape code given that HTML is interpreted by Web browsers that run on top of the BIOS and the OS.

The Office disagrees for the following reasons:

The teaching from HTML is not for running a browser but for the idea of using markup to control display attributes, a well known concept even predating Web browsers as taught by SGML, which is a superset of HTML.

Inquires

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Lê Nguyen whose telephone number is **(571) 272-4068**. The examiner can normally be reached on Monday - Friday from 7:00 am to 3:30 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley, can be reached at (571) 272-3923.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lvn
Patent Examiner
July 6, 2008

/Stephen S. Hong/
Supervisory Patent Examiner, Art Unit 2178